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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/818,138	03/27/2001	Atsuhiko Yoneda	8373.234US01	2609	
23552 7	590 05/20/2005		EXAM	INER	
MERCHANT & GOULD PC P.O. BOX 2903			CUEVAS,	CUEVAS, PEDRO J	
	IS, MN 55402-0903		ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 05/20/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

AN

	Application No.	Applicant(s)			
Office Action Commence	09/818,138	YONEDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Pedro J. Cuevas	2834			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versiliare to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the will apply and will expire SIX (6) MC, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16 M	1)⊠ Responsive to communication(s) filed on <u>16 March 2005</u> .				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1 and 6-8 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1 and 6-8</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>27 March 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Motion of Poferences Cited (PTO 200)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of	Informal Patent Application (PTO-152)			
S. Patent and Trademark Office	6)	·			

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed on July 12, 2004 have been fully considered but they are not persuasive.
- 2. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,774,428 to Konecny in view of U.S. Patent No. 6,351,050 B1 to Coles.

Konecny disclose the construction of a compact three-phase permanent magnet rotary machine having low vibration and high performance comprising:

an annular stator (20) having circumferentially arranged stator windings (Figures 1A and 1B) of nine poles $(A_{1,2,3}, B_{1,2,3}, C_{1,2,3})$ radially arranged at an equal pitch, each of said poles having respective one of said stator windings wound therearound, three or a multiple of three poles of said stator windings being connected in series to provide three phases (Coles, Figure 3), each of said three phases comprises those three or a multiple of

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three poles of said stator windings which are not positioned adjacent to each other (Figure 2), or adjacent to each other (Figure 1);

a rotor consisting of permanent magnets of eight poles (Figures 1 and 2); the stator windings being connected such that they can be driven by electric power of three phases; and

an armature core winding method having stator winding groupings comprising three poles of said stator windings, which are positioned as every other one of said stator windings and being connected in series.

However, it fails to disclose an inner rotor positioned within the outer stator.

Coles teach the construction of an electrical power assisted steering system comprising:

a steering wheel (3) of a vehicle;

front wheels (Figure 1) of a vehicle;

a steering system (Figure 1) applying torque from the steering wheel to the front wheels;

an inner rotor (300) positioned within an outer stator (400) and consisting of permanent magnets (301) of eight poles magnetized radially so that N and S poles are alternately arranged circumferentially; and

having a motor shaft (2) on which said permanent magnets of eight poles are circumferentially arranged, said motor shaft having solid form;

for the purpose of providing a motor with a low braking torque achieved by maximizing the impedance, which in turn is produced by maximizing the level of a machine's reactance.

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It would have been obvious to one skilled in the art at the time the invention was made to use the motor disclosed by Nishiyama et al. with on the compact three-phase permanent magnet rotary machine disclosed by Konecny for the purpose of providing a motor with a low braking torque achieved by maximizing the impedance, which in turn is produced by maximizing the level of a machine's reactance.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

Pedro J. Cuevas May 12, 2005